

THE UNIVERD SHAYES OF AMERICA

TO ALL TO VHOM THESE: PRESENTS: SHALL COMES

Monsanto Company

IIILCERS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HERS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC SPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR UNGIT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PROSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'4788561'

In Testimonn Thereof, I have hereunto set my hand and caused the seal of the Hant Insiety Instection Office to be affixed at the City of Washington, D.C. this twenty-fifth day of February, in the year two thousand and eight.

Allaste

along

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secretary julture

REPRODUCE LOCALLY. Include form number and	date on all reprodu	ctions				Form Approved - OMB No. 0581-0055	
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE				The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.			
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)				Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).			
1. NAME OF OWNER				TEMPORARY DESIGNATION OR EXPERIMENTAL NAME		3. VARIETY NAME	
Monsanto Company			EAFERINGIN TALIMANIC		4788561		
4. ADDRESS (Street and No., or R.F.D. No., City,	State, and ZIP Co.	de, and Country)	1	5. TELEPHONE (include area code)		FOR OFFICIAL USE ONLY	
00077 1 7 1 1 1 7 7			314.69	4.2718	PVPO I	NUMBER	
800 North Lindbergh Blvd	1		6. FAX (include ar	ea code)	(1000000	
E2SD St. Louis, MO 63167			·	314 604 4000		200700151	
St. Louis, MO 63167			314.09	314.094.4888		DATE	
 IF THE OWNER AMED IS NOT A "PERSON", G ORGANIZATION (corporation, partnership, asso 		8. IF INCORPORATED, GIVE STATE OF INCORPORATION	9. DATE OF INCO	RPORATION		<i>~</i> ,	
	•	STATE OF INCORPORATION				Feb. 12,2007	
Limited Liability Compan	у					•	
10. NAME AND ADDRESS OF OWNER REPRESE	NTATIVE(S) TO S	SERVE IN THIS APPLICATION. (First o	erson listed will recei	ve all papers)	F E	FILING AND EXAMINATION FEES:	
Susannah Cooper					E S	\$4,382.00 <u></u>	
800 North Lindbergh Blvd					R E	DATE 2/12/07	
E2SD					С	CERTIFICATION FEE:	
St. Louis, MO 63167					E 1 V	s 768	
					E	DATE	
					D	12/20/07	
11. TELEPHONE (Include area code) 314.694.2718	12. FAX (Includ	e area code) 4.694.2399	13. E-MAIL	ah a acanar@:		nto com	
14. CROP KIND (Common Name)	16. FAMILY N			susannah.g.cooper@monsanto.com 18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL)			
Soybean		baceae (Leguminosae)		☐ YES ☐ NO			
15. GENUS AND SPECIES NAME OF CROP		RIETY A FIRST GENERATION HYBRIC	IF SO, PI	IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE			
Glycine max (L.) Merr.	□ YES		APPRO\	APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERICALIZATION.			
• • •				20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS			
 CHECK APRROPRIATE BOX FOR EACH ATTA (Follow instructions on reverse) 	ACHMENT SUBMI	HED	OF CERT	OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)			
a. 🗹 Exhibit A. Origin and Breeding History	of the Variety			ES (If "yes", answer i			
b. 🗹 Exhibit B. Statement of Distinctness				E OWNER SPECIFY OF CLASSES?	THAT SE	EED OF THIS VARIETY BE LIMITED AS TO	
c. 🗹 Exhibit C. Objective Description of Variety				ES 🗆 NO			
d. Exhibit D. Additional Description of the Variety (Optional)				HICH CLASSES?	☐ FOUN	NDATION REGISTERED CERTIFIED	
e. 🗹 Exhibit E. Statement of the Basis of the	e Owner's Ownersl	nip		E OWNER SPECIFY OF GENERATIONS		EED OF THIS VARIETY BE LISITED AS TO	
f. ☑ Exhibit F. Declaration Regarding Depo	sit		□ YE	_	,,		
g. Voucher Sample (3,000 viable untreate that tissue culture will be deposited and	ed seeds or, for tul			IF.YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS.			
g. Filing and Examination Fee (\$4,382), m		,	FOUN	☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED			
States" (Mail to the Plant Variety Protect						lease use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVES FROM THIS VARIETY BEEN SOLD, DISPOSED OTHER COUNTRIES?				24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?			
YES NO			Ø Y	☑ YES □ NO			
IF YES, YOU MUST PROVIDE THE DATE OF I FOR EACH COUNTRY AND THE CIRCUMSTA				IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNEE REFERENCE NUMBER. (Please use space indicated on reverse.)			
25. The owners declare that a viable sample of basi for a tuber propagated variety a tissue culture w					cordance v	with such regulations as may be applicable, or	
, , , , ,	·	,			inct unifo	rm, and stable as required in Section 42, and is	
The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.							
Owner(s) is (are) informed that false representat	tion herein can jeo	pardize protection and result in penaltie	s.				
SIGNATURE OF OWNER		s	IGNATURE OF OWNER	3		- 12.4857998494	
1 1 1 1 1 1 1 1 1 1							
NAME (Please print of type)	N	AME (Please print or ty)	pe)				
Sucannah Cooper							
Susannah Cooper	DATE	C	APACITY OR TITLE	-	DATE		
Patent Scientist 16-Mar-07							

(see reverse for instructions and information collection burden statement)

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filling fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

200700151

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and **provide evidence** that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, **Seed Regulatory and Testing Branch**, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- .19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative vatietied as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

22. CONTINED FROM FRONT (Please provide a statement as to the limitation and segence of generations that may be certified.)

23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transfereed, or used in the U.S. or other countries.)

This variety was first sold in the US in April 2006

24. CONTINUED FROM FRONT (Please give the country, date of filling or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
US Patent Pending. Patent Application No. 60,745,934

According to the Paperwork Heduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A Origin and Breeding History

Parentage: 602216/WPG2684

Table 1: Breeding History

Generation	Year	Description
Cross	Summer-1998	The cross was made at Janesville, WI.
\mathbf{F}_1	Fall-1998	Plants were grown at Isabella, Puerto Rico and advanced using modified single seed descent.
F ₂	Winter-1999	Plants were grown at Isabella, Puerto Rico and advanced using modified single seed descent.
.F ₃	Summer-1999	Bulk populations were grown at Janesville, WI and advanced using single plant selection.
F ₄	Summer-2000	F ₃ derived F ₄ were grown at Janesville, WI in progeny row and the variety 4788561 was selected based on the agronomic characteristics, including, but not limited to, general plant health, lodging, early emergence, and general disease resistance, including PRR, SCN, BSR, SDS, stem canker, etc.
F_5	2001	Yield tests were conducted at 4 locations.

Variety 4788561 was observed to be uniform and stable for the characteristics described within this application based on our observations since Summer-2000 and, henceforth, to present. No variants were observed during this time.

Variety 4788561 has continued to be grown in yield tests for comparison against other varieties to determine how it would be used in our marketing program (Table 2).

Table 2: Yield trials

	Number of
Year	Locations
2002	8
2003	19
2004	32
2005	38

#200700151

Exhibit B Statement of Distinctness of

4788561

To our knowledge, the soybean variety that most resembles 4788561 is AG2703 and differ in the following trait(s):

Trait	AG2703	4788561	
Pubescence color	Gray	Light tawny	
Hilum color	Imperfect Black	Black	

Form Approved OMB NO 0581-0055

REPRODUCE LOCALLY, Include form number and date on all reproductions.

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U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY **PLANT VARIETY PROTECTION OFFICE** BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine may (L) Merr)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIME	ENTAL DESIGNATION	VARIETY NAME
Monsanto Company CJW2203N0R			4788561
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Attn: Susannah Cooper 800 North Lindbergh Blvd. Mail Zone: E2SD St. Louis, MO 63167	Country)		PVP NUMBER # 2 0 0 7 0 0 1 5 1
PLEASE READ ALL INSTRUCTIONS CAREFULL	Y:		
Place the appropriate number that describes the value of the appropriate number that describes the value of the place a zero in the first box (e.g., 0 9 9 9 or 0 should be based on a minimum of 100 plants. Com any recognized color standard may be used to determine all questions for your variety; lack of response may of the place	rietal character of this variety in 9 9) when number is either parative data should be determ mine plant colors; designate s	99 or less or 9 or less respective in the second in the se	·
<u>·</u>			
A. MORPHOLOGY: Seed Shape: 2 1 = Spherical (L/W, L/T, and T/W ratios ≤1.2)		erical-Flattened os> 1.2; L/T ratios ≤ 1.2)	
3 = Elongate (L/W ratios > 1.2; T/W ratios ≤1.2		gate-Flattened os ≥1.2; L/W ratios ≥ 1.2)	
Seed Coat Color: * 1 1 = Yellow 2 = Green 3 =	Brown 4 = Black	5 = Other (Please spec	cify)
Seed Coat Luster: 1 1 = Dull 2 = Shiny		^	
Seed Size: * grams/100 seeds (rounded)	d to the nearest decimal	(00.0))	
Hilum Color: * $\boxed{6}$ 1 = Buff 2 = Yellow 3 =	Brown 4 = Gray	5 = Imperfect Black	6 = Black

7 = Other (Please specify)

A. MORPHOLOGY: (continued)

#200700151

Cotyledon Color:

1 = Yellow

2 = Green

Seed Protein Peroxidase Activity:

0 1 = Low

Hypocotyl Color:

1 = Green

2 = Green with Bronze

3 = Light Purple ('Evans' or 'Davis') Band below cotyledons below Cotyledons ('Woodworth' or 'Tracy')

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', ('Beeson' or 'Pickett 71') 'Coker', or 'Hampton 266A')

Leaf Shape:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Please specify)

Flower Color:

1 = White

2 = Purple

3 = White with a Purple Throat

Pod Color:

1 = Tan

2 = Brown

3 = Black

Pubescence Color:

1 = Gray

2 = Brown (Tawny)

3 = Light Tawny

Plant Habit:

1 = Determinate

2 = Semi-determinate

3 = Indeterminate

4 = Intermediate

Maturity Group:

1 = 000

2 = 00

3 = 0

4 = 1

5 = II

6 = III11 = VIII 7 = IV

V = 8

9 = VI

10 = VII

12 = 1

13 = X

14 = XI

15 = XII

Maturity Subgroup:

Please enter a value from 0-9

B. DISEASE REACTIONS: 0 = Not Tested

1 = Susceptible

2 = Resistant

3 = Tolerant

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- 0 Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- Brown Spot (Septoria glycines Hemmi)
- Frogeye Leaf Spot (Cercospora sojina Hara)
- race 2

race 1

- race 3 race 4
- race 5 race 6
- 0 race 7
 - Important: Any other races tested (Please specify)

B. DISEASE REACTIONS: (continued)

#200700151

	_	
	0	Target Spot (Corynespora cassiicola (Berk. & Curt.) Wei)
		Downy Mildew (Peronspora trifoliorum var. manchurica (Naum.) Syd. Ex Gäum)
	0	Powdery Mildew (Microsphaera diffusa Cke. & Pk.)
	0	Brown Stem Rot (Phialophora gregata (Allington & Chamberlain) W. Gams.)
*	0	Stem Canker (Diaporthe phaseolorum (Cke. & Ell.) Sacc. var. caulivora Athow & Caldwell)
*	0	Pod and Stem Blight (<i>Diaporthe phaseolorum</i> (Cke. & Ell.) (Sacc. var. <i>sojae</i> (Lehman) Wehm.)
	0	Purple Seed Stain (<i>Cercospora kikuchii</i> (T. Matsu. & Tomoyasu) Gardener)
	0	Rhizoctonia Root Rot (<i>Rhizoctonia solani</i> Kühn)
	0	Asian Soybean Rust (<i>Phakospora pachyrhizi</i> Sydw. (a.k.a. <i>Phakospora pachyrhizia</i> Sydw.))
	0	Other rust (Please specify)
Spe	cify	the gene(s) coding for reaction to Phytophthora Root Rot.
	0	Rps1 (Williams)
	0	Rps1-a (Mukden) (PI 103.091) (CNS) (PI 340.046) (Rps3-c (Altona)
. [0	Rps1-b (Sanga) 0 Rps1-e (PI 172.907) 0 Rps3-a (PI 86.050) 0 Rps7 (Harosoy)
hyt	oph	thora Root Rot (<i>Phytophthora sojae</i> (Kaufmann & Gerdemann))
C) '	ace 1 0 race 9 0 race 17 0 race 25 0 race 32 0 race 39
0)	ace 2 0 race 10 0 race 18 0 race 26 0 race 33 0 race 40
0	r	ace 3 0 race 11 0 race 19 0 race 27 0 race 34 0 race 41
0] r	ace 4 0 race 12 0 race 20 0 race 28 0 race 35 0 race 42
0] r	ace 5 0 race 14 0 race 21 0 race 29 0 race 36 0 race 43
0	r	ace 6 0 race 14 0 race 22 0 race 30 0 race 35 0 race 44
0] r	ace 7 0 race 15 0 race 23 0 race 31 0 race 38 0 race 45
0] r	ace 8 0 race 16 0 race 24 Important: Any other races tested (Please specify)
0] E	sud Blight (Tobacco Ringspot Virus)
0] \	ellow Mosaic (Bean Yellow Mosaic Virus)
0] (owpea Mosaic (Cowpea Chlorotic Virus)
0] F	od Mottle (Bean Pod Mottle Virus)
0	ī	eed Mottle (Soybean Mosaic Virus)
em	- ato	
oyb	ear	Cyst Nematode (<i>Heterodera glycines</i> Ichinohe)
0	1	ace 1 0 race 4 0 race 9
0	i	ice 2 0 race 5 0 race 14
6	1	ice 3 0 race 6 Important: Any other races tested (Please specify)
	1 .,	

В.	Di	SEASE REACTIONS: (continued)
		# 2 0 0 7 0 0 1 5 1
	0	Lance Nematode (Hopiolalmus Colxmbus Sher)
	0	Southern Root Knot Nematode (<i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)
	0	Northern Root Knot Nematode (<i>Meliodogyne hapla</i> Chitwood)
	0	Peanut Root Knot Nematode (<i>Meliodogyne arenaria</i> (Neal) Chitwood)
	0	Reniform Nematode (Rotylenchus reniformus Linwood & Olivera)
	0	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)
		Important: Other Nematodes tested (Please specify)
C.	Pŀ	IYSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Iron Chlorosis on Calcareous Soil
	0	Phosphorus Important: Other (Please specify)
	0	Boron
	0	Aluminum
	0	Salt
	0	Drought
D.	0 0 0	Mexican Bean Beetle (<i>Epilachna varivestis</i> Mulsant) Soybean Aphid (<i>Aphis glycines</i> Matsamura) Potato Leaf Hopper (<i>Empoasca fabae</i> (Harris)) Important: Other (Please specify)
E.	HE	RBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Metribuzin
	0	Bentazone
	o	Sulfonylurea
*	2	Glyphosate
	0	Glufosinate
	o	Pendimethalin
	Ħ	Important: Other (Please specify)

F. TRANSGENIC COMPOSITION:

#200700151

Has the development of the subject variety included the insertion of genetic material from an organism, other than a soybean, or, the removal of genetic material from the application variety?

If yes, please complete the following information requests*. Use additional pages if necessary.

Yes No

Please state the vector's name:

Please state the vector components:

Please describe the genetic material successfully transferred into the subject variety:

Please describe the insertion protocol:

A literature citation(s) explaining the your information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney *U*-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1								
Year/Location 2				·				
Cited Most								
<u>Similar Variety</u> Year/Location 1								·
Year/Location 2								

I. COMMENTS:

#200700151

Exhibit D Additional Description of Invention

4788561

4788561 is a(n) mid-early maturity group II variety with resistance to Roundup Ready® herbicide. It has superior yields to lines of similar maturity and has excellent agronomic characteristics. In tests, it has beaten AG2106 by 106% overall in yield, winning 40 of 53 locations. It is adapted to early-mid maturity group II growing areas.

	reproductions.	ORM APPROVED-OMB No. 0581-0055	
U.S. DEPARTMENT OF AGRICULTURE			
AGRICULTURAL MARKETING SERVICE	Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held		
EXHIBIT E	confidential until the certificate is issued	721). The information is held	
STATEMENT OF THE BASIS OF OWNERSHIP	Confidential diffil the certificate is issu	ed (7 0.3.0. 2420).	
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME	
	OR EXPERIMENTAL NUMBER	3. VARIETT NAME	
Monsanto Company	CJW2203N0R	4788561	
	CJ W 2203110K	4/88301	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)	
800 North Lindbergh	314.694.2718	314.694.2399	
E2SD	1 2 2 3 10 2 1 2 0	311.071.2077	
	7. PVPO NUMBER		
St. Louis, MO 63167	#200	700151	
2 Doce the applicant own all rights to the			
8. Does the applicant own all rights to the variety? Mark an "X" in the	e appropriate block. If no, please expla	in. X YES NO	
	€ 9		
9. Is the applicant (individual or company) a U.S. national or a U.S. b	ased company? If no, give name of co	ountry. YES XO	
10.1.1			
10. Is the applicant the original owner? X YES	NO If no, please answer one	of the following:	
 a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. Nation	al(s)?	
YES T	NO If no, give name of count		
i		•	
b. If the original rights to variety were owned by a company(ies),	is (are) the original owner(a) a LLC has	-d	
the state of the s			
YES	NO If no, give name of countr		
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11. Additional Explanation on ownership (Trace ownership from origin PLEASE NOTE: Plant variety protection can only be afforded to the owners (not license	NO If no, give name of countral breeder to current owner. Use the research who meet the following criteria:	verse for extra space if needed):	
11. Additional Explanation on ownership (Trace ownership from origin) PLEASE NOTE: Plant variety protection can only be afforded to the owners (not license). 1. If the rights to the variety are owned by the original breeder, that pe	NO If no, give name of countral present who meet the following criteria:	verse for extra space if needed):	
11. Additional Explanation on ownership (Trace ownership from origin PLEASE NOTE: Plant variety protection can only be afforded to the owners (not license 1. If the rights to the variety are owned by the original breeder, that pe national of a country which affords similar protection to nationals of	NO If no, give name of countral breeder to current owner. Use the resease) who meet the following criteria: rson must be a U.S. national, national of the U.S. for the same genus and species	verse for extra space if needed): f a UPOV member country, or	
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PLEASE NOTE: Plant variety protection can only be afforded to the owners (not license national of a country which affords similar protection to nationals of 2. If the rights to the variety are owner by the company which employed nationals of a UPOV member country, or owned by nationals of a country and species. 3. If the applicant is an owner who is not the original owner, both the owner or original breeder/owner may be the individual or company who dired Act for definitions.	al breeder to current owner. Use the real breeder to current owner and species of the U.S. for the same genus and species of the original breeder(s), the company ountry which affords similar protection to the similar owner and the applicant must me acted the final breeding. See Section 4 and a person is not required to respond to a collection the time required to complete this information collection that the property of the time required to complete this information collection to the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the same property of the basis of race, color, national origin, generally the company of the same property of the same prop	f a UPOV member country, or is. must be U.S. based, owned by a nationals of the U.S. for the same set one of the above criteria. (a)(2) of the Plant Variety Protection of information unless it displays a valid OMB on is estimated to average 0.1 hour per response, swiewing the collection of information. der, religion, age, disability, sexual orientation,	

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The val OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

NAME OF OWNER (S) Monsanto Company	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country) 800 N Lindbergh Blvd, E2SD	TEMPORARY OR EXPERIMENTAL DESIGNATION CJW2203N0R		
St. Louis, MO 63167		VARIETY NAME 4788561		
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOROPHCIALUSEONLY		
Susannah Cooper	800 N Lindbergh Blvd, E2SD St. Louis, MO 63167	#2°0 0 7 0 0 1 5 1		

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished at needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Signature

Date